

GODIN, Yu.N., akademik [deceased]; VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.;
RYABOY, V.Z.; SHRAYEMAN, V.I.

Characteristics of the structure of the earth's crust in
the western part of Central Asia. Dokl. AN SSSR 146
no.4:813-815 0 '62. (MIRA 15:11)

1. Institut geologii AN Turkmenskoy SSR, Vsesoyuznyy
nauchno-issledovatel'skiy institut geofizicheskikh
metodov razvedki i Moskovskiy institut neftekhimicheskoy
i gazovoy promyshlennosti. 2. AN Turkmenskoy SSR (for Godin).
(Asia, -Central—Seismic prospecting)

ACCESSION NR: AR4036339

8/0169/64/000/003/0004/0004

SOURCE: Referativnyy zhurnal. Geofizika, Abs. 3G19

AUTHOR: Vol'vovskiy, I. S.; Vol'vovskiy, B. S.

TITLE: Characteristics of the structure of the earth's crust in the western part of Soviet Central Asia (on the basis of data from integrated geophysical investigations)

CITED SOURCE: Sb. Tezisy* dokl. Soveshchaniya po probl. tektoniki. M., AN SSSR, 1962, 147-149

TOPIC TAGS: geology, geophysics, geophysical exploration, earth's crust, Mohorovicic discontinuity, seismology, crustal structure, deep seismic sounding gravimetry

TRANSLATION: On the basis of the structure of the earth's crust in Central Asia it is possible to define two zones: a western zone with relatively simple structure and an eastern zone which has a considerably more complex structure. In the eastern zone there is a deep downwarping of the Mohorovicic discontinuity

Card 1/3

ACCESSION NR: AR4036339

in the Fergana depression, a decrease in crustal thickness in the bordering ranges and a plunging of the surface of the subcrustal layer toward the Pamir-Alay system. Individual uplifts are noted in the western zone against a background of smooth plunging of the Mohorovicic discontinuity in a southward direction. On the whole, within the Kopet-Dag and Pamir-Alay system there is an inverse relationship between the surface relief and the surface of the subcrustal layer, whereas in the mountain structures of the zone of renewed folding (Kuratskiy, Ferganskiy, Turkestanskiy and Kuraminskiy Ranges) there is a direct relationship between the two forms of relief. Within the limits of a platform uplifted sectors of the crust correspond to an arching uplift of the surface of the folded basement, that is, the thickness of the crystalline crust remains approximately constant. In geologically uniform regions the earth's crust in the process of tectonic development apparently does not experience special adjustments; the cause of movements is physicochemical processes in the subcrustal matter. A comparison of deep seismic sounding and gravimetric data makes it possible to detect those relationships between density differentiation of the

Card 2/3

ACCESSION NR: AR4036339

subcrustal matter and tectonic movements in the crust which will serve as
confirmation of the hypothesis of phase transitions of subcrustal matter.
I. Galkin

DATE ACQ: 17Apr64

SUB CODE: AS

ENCL: 00

Card 3/3

S/169/61/000/011/018/065
D228/D304

AUTHORS: Vol'vovskiy, B.S., Vol'vovskiy, I.S., and Ryaboy, V.Z.

TITLE: Laboratory use of the method of controllable directed reception for interpreting the data of deep seismic sounding

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 21, abstract 11A197 (V sb. Razved. i promysl. geofiz., no. 36, M., 1960, 8 - 13)

TEXT: The laboratory modification of the method of controllable directed reception was used for distinguishing waves reflected from deep discontinuity surfaces. The substantial difference in the frequency characteristics of the apparatus of deep seismic sounding and controllable directed reception was overcome by means of the approximately fourfold enlargement of the time scale and summation base. Extended hodographs (to 35 km) of reflected waves corresponding to the surface of the subcrustal and granitic layer were constructed as a result of the processing of seismograms. Reflected

Card 1/2

Laboratory use of the method of ...

S/169/61/000/011/018/065
D228/D304

waves were also distinguished at the point of origin. Anomalous
apparent velocities and sharp changes in the form of the wave re-
cordings were observed in the region of the points of origin. [Ab-
stractor's note: Complete translation].

✓
—

Card 2/2

GODIN, Yu.N.; VOL'VOVSKIY, R.S.; VOL'VOVSKIY, I.S.; FOMENKO, K.Ye.

Studying the structure of the earth's crust in the course of regional seismic explorations on the Russian Platform and in Central Asia; materials presented at the 12th General Assembly of the International Union of Geodesy and Geophysics. Izv. AN SSSR. Ser. geofiz. no.10:1464-1471 0 '61. (MIRA 14:9)

1. AN Turkmenskoy SSR i Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki.
(Seismometry) (Earth--Surface)

S/049/62/000/008/002/003
1046/1246

AUTHORS: Belousov, V.G., Vol'vovskiy, B.S., Vol'vovskiy, I.S. and Ryaboy, V.Z.

TITLE: Experimental investigation of the registration of deep-reflected waves

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 8, 1962, 1034-1044

TEXT: A report on the deep seismic sounding with reflected (subcritical) waves carried out in 1960-1961 in the South-Eastern Turkmenia over a 120 km profile. The noise waves were eliminated by using directional reception: seismoreceivers and sources of seismic vibrations were grouped together (9 receivers spaced evenly over a linear distance of 400 m, each group removed by 100 m from its neighbors). Comparison of the results with the data obtained in 1958 in deep seismic sounding with reflected (hypercritical) and leading waves shows good agreement in general features on the seismograms, though subcritical reflection is better in detecting fine details. It is

Card 1/2

Experimental investigation of the registration....

recommended to use as far as possible a combination of the two methods. There are 8 figures.

SUBMITTED: February 26. 1962

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki (The All-Union Scientific Research Institute of Geophysical Methods of Prospecting) ✓

Card 2/2

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; RYABOY, V.Z.

Some data on seismic waves corresponding to the layer beneath the
crust. Prikl. geofiz. no.31:3-10 '61. (MIRA 15:3)
(Uzbekistan--Seismic prospecting) (Earth--Internal structure)

BELOUSOV, V.G.; VOLVOVSKI, B.S. [Vol'vovskiy, B.S.]; VOLVOVSKI, I.S.
[Vol'vovskiy, I.S.]; REABOI, V.Z.

Experimental research on the registering of the waves reflected
by depth. Analele geol geogr 17 no.3:51-64, JI-S '63.

S/552/61/000/031/001/003
D218/D304

AUTHORS: Vol'voskiy, B.S., Vol'vovskiy, I.S. and Ryaboy, V.Z.

TITLE: Some data on seismic waves corresponding to the subcrustal layer (based on the results of seismic studies of the earth's crust in Uzbekistan)

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki. Prikladnaya geofizika. No. 31, 1961, 3-10

TEXT: The authors report on some methodological results obtained during the 1958-1959 regional seismic studies of the earth's crust along the Leninabad-Karaungur, Abadan-Vuadil' and Karabekaul-Koytash profiles. This research was carried out by the Uzbekskiy geofizicheskiy trest (Uzbek Geophysical Trust) and the Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki (All-Union Scientific Research Institute for Geophysical Methods of Prospecting). It was the continuation of deep seismic soundings carried out in 1949-1955 in various regions of Soviet Central Asia by the Geofizicheskiy institut AN SSSR (Geophysical

Card 1/4

Some data on seismic waves ...

S/552/61/000/031/001/003
D218/D304


Institute of the AS USSR) previously known as Institut fiziki Zemli (Institute of Physics of the Earth) on the initiative, and initially under the direction of Academician G.A. Gamburtsev. Multiple seismographs were employed (4 instruments per group), the distance between the groups being 100 m. 1-2 ton charges of TNT were exploded at distances between 15 and 70 km and the maximum distance of the points of observation from the charges was between 200 and 300 km. It was found that the recorded waves can be divided into 3 types, namely 1) longitudinal refracted waves recorded both in first and subsequent arrivals, 2) reflected waves from low-lying separation boundaries in the crust recorded both at near (60-80 km) and distant (300 km) points, and 3) waves which could be ascribed to multiple reflected-refracted and composite waves due to low-lying separation boundaries. Some typical hodographs and velocity and amplitude spectra are reproduced and discussed. The experimental results have been evaluated on the basis of a dynamic theory of propagation of seismic waves developed at the Leningradskoye otdeleniye matematicheskogo instituta AN SSSR (Leningrad Branch of the Mathematical Institute AS USSR) by G.I. Petrashen', A.S. Alekseyev and others. These calculations

Card 2/4

S/552/61/000/031/001/003
D218/D304

Some data on seismic waves ...

have shown that the predominating waves in uniformly layered media are not head waves (as it was assumed so far), but waves reflected beyond the critical angle (i.e. so-called postcritical reflections). In gradient media the dominating waves are reflected and refracted waves (the calculations were carried out for a perfectly elastic model of the crust). In the present studies waves reflected from the surface of the subcrustal layer (Mohorovicic discontinuity) were observable beginning at 30-40 km from the point of explosion and were recorded in subsequent arrivals in the entire range of distances. The apparent velocities of these waves were found to decrease from 9-10 km/sec at 80-90 km to 6.5-7.0 km/sec at 250-300 km. Their hodographs have a hyperbolic form. The predominating frequencies vary between 9-11 and 14-15 cps and tend to decrease slightly with distance. The refracted waves are weaker in intensity and have apparent velocities between 8 and 9.5 km/sec. They tend to increase slowly with distance. The predominating frequencies in the spectra of these waves lie in the range 10-16 cps and are as a rule greater by 2-4 cps than in the case of the reflected waves. The frequencies tend to decrease with distance. It is pointed out that the dynamic theory mentioned-above predicts that the reflected waves should have higher



Card 3/4

Some data on seismic waves ...

S/552/61/000/0031/001/003
D218/D304

frequencies than the corresponding refracted waves which is an apparent contradiction with observations. The general conclusion is that seismic studies of the earth's crust in Soviet Central Asia show that waves reflected from the Mohorovicic discontinuity before and after the critical angle can be determined from seismographs. There is also a complex reflected group consisting of head waves produced on the surface of the subcrustal layer and weakly refracted in the latter. For the purposes of deep seismic sounding these waves may be interpreted as head waves corresponding to the surface of the subcrustal layer. There are 8 figures and 10 Soviet-bloc references.

Card 4/4

GOLUBOV, M.M.; LEGEYDA, N.F.; ZAKHAROV, A.Ye.; FADEYEV, A.Yu.; PAN'KIN, N.I.;
SAPRYGIN, Kh.M.; NOSOV, V.S.; VOL'TER, Ia.V.; SHUL'GA, Ye.A.;
MIROSHNICHENKO, S.I.

Effect of the rate of plate cooling on the quality of the metal
after rolling. Met. i gornorud. prom. no.1:33-36 Ja..F '65.
(MIRA 18:3)

VOL. 1, EKKH, P. 1

1.1.1. Abstract. The author considers the problem of the twisted elastic bars subjected to the action of the forces concentrated at the ends of the bars.

Assuming that the cross-sections of the bars are deformed in the plane, and employing a simplification, the author derives equations of motion and boundary conditions for curved and twisted bars, taking into account influence shear and rotary inertia. No comparison is given between these equations and equations of other authors.

1.1.2. Keywords.

VOLTERRA, E.

2

Entered VISITATIONS 01/1/1971

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860730001-5

VOLTERRA. E.

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860730001-5"

VOLTMAN, K.
VOL'TMAN, K. [Voltmanis, K.]

Emigrant falsehood and Soviet reality. Sov. profsoiuzy 6 no.1:48-53
Ja '58. (MIRA 11:1)

1. Predsedatel' Latviyskogo respublikanskogo soveta profsoyuzov.
(Latvians)

VILKIN, K.

Trade-Unions - Latvia

Daily attention to building up a trade-union core, V pom. profaktivu, 13, No. 7, 1952

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

VOL'TMAN, K., predsedatel'.

Latvian trade-unions' work with the masses in industry. Prof. soiuzy 8
no. 6:35-39 Ja '53. (MLBA 6:5)

1. Latviyskiy respublikanskiy sovet profsoyuzov. (Efficiency, Industrial)

SHMAL', G. (Kiyev); KRIVOSHEYEV, S. (Kirovogradskaya obl.); RAPCHINSKIY, A. (Dnepropetrovskaya obl.); SIMOROT, Z.; VOL'TMAN, V. (g.Kalyazin, Kalininskoy obl.); KOLGANOV, I., yurist

Replies to our readers. Sov.profsoiuzy 17 no.11:41 Je '61.
(MIRA 14:5)

1. Konsul'tant yuridicheskogo sektora Ukrainskogo republikanskogo
soveta profsoyuzov (for Simorot).
(Wage payment systems) (Vacations, Employee)

VOL'TMAN, V. L.

5(1,3)

PHASE I BOOK EXPLOITATION

SOV/3170

Fabrikant, Tamara L'vovna, and Vol'f Leonovich Vol'tman

Asbovinil i yego primeneniye v khimicheskoy promyshlennosti (Asbovinyl and Its Utilization in the Chemical Industry) Moscow, Goskhimizdat, 1958.
78 p. Errata slip inserted. (Series: Korroziya v khimicheskikh proizvodstvakh i sposoby zashchity, vyp. 11) 3,000 copies printed

Ed.: I.Ya. Klinov; Editorial Commission: N.A. Baklanov, V.Ye. Volodin, V.S. Kiselev (Chairman), I.Ya. Klinov, V.I. Kruchinin (Secretary), G.V. Sagalayev (Deputy Chairman), and P.G. Udyma.

PURPOSE: This booklet is intended for workers specializing in corrosion prevention and for design engineers of chemical and related industries

COVERAGE: This booklet deals with the prevention of corrosion and anticorrosive materials. It reviews physicochemical and mechanical properties of asbovinyl which is an anticorrosive mixture, the basic components of which are ethynol (divinyl acetylene), lacquer and asbestos. Methods for preparation of the

Card 1/5

Asbovinyl and Its Utilization (Cont.)

SOV/3170

asbovinyl mixture and the utilization of this mixture as a protective material against corrosion are briefly outlined and safety techniques during production are reviewed. Chemical resistance of different types of asbovinyl to corrosive agents is discussed. The experience of the industry in using asbovinyl mixture for the lining of various containers, filters, gas conduits, pipes, etc., is outlined. The procedure for using this mixture as a corrosion resistant material is explained as well as methods of storing, transporting, packing, etc. Studies of A.L. Klenbanskiy, I.M. Dolgopol'skiy and I.P. Shabodanov proved that asbovinyl mixture can be used successfully for protecting equipment of the chemical industry against corrosion. It is now widely used in Soviet industry. There are 16 references: 14 Soviet and 2 English.

TABLE OF CONTENTS:

From the Editor	3
Foreword	5
I. General Information	7
II. Basic Materials	9

Card 2/5

Asbovinyl and Its Utilization (Cont.)

SOV/3170

Ethynol lacquer	9
Asbestos	13
III. Production Process for the Preparation of Asbovinyl Mixture	19
Preparation and dosing of raw material	19
Mixing	19
Packing	20
Storing	20
Production control	20
Consumption of materials used in preparing the initial asbovinyl mixture	20
Technical specifications for the asbovinyl mixture	21
IV. Properties of Asbovinyl	22
Physical and mechanical properties	22
Chemical resistance	26
V. Use of Asbovinyl as an Anticorrosion Material	34

Card 3/5

Asbovinyl and Its Utilization (Cont.)

SOV/3170

Use of asbovinyl as fettling	34
Use of asbovinyl as dyeing lacquer	38
Use of asbovinyl as a base coating	38
VI. Experience of the Industry in Using Asbovinyl as a Protective Coating	42
Lining of bubbling towers used in the production of sulfuric acid	42
Lining of acid tanks	43
Lining of fermentation drums	44
Lining of alkali neutralizers	44
Lining of filters made of reinforced concrete	45
Lining of vane wheels of exhaust fans and small turbines	46
Lining of gas conduits	47
Lining of pipes	47
Lining of wooden towers and their metallic bands	49
Lining of electrofilters (selenium precipitation chambers)	50
A base coating	51
Asbovinyl cement	54
VII. Asbovinyl Section of the Corrosion Prevention Department	55
Card 4/5	

Asbovinyl and Its Utilization (Cont.)	SOV/3170	
VIII. Safety Techniques During Work ^{with} Ethynol Lacquer and Asbovinyl Mixture		61
Appendix 1. Instructions for Using Asbovinyl Mixtures as Fettingling		62
Appendix 2. Excerpts From MIKhM Regulations Concerning the Procedure of Combined Coating of Metal Surface With Polyisobutylene and Asbovinyl Mixture		67
Appendix 3. Excerpts From VTU MK-P 3109-53 Specifications for the Asbovinyl Lining Mixture		74
Bibliography		77
AVAILABLE: Library of Congress		

Card 5/5

TM/509
2-17-60

~~V. L. TMAN, V. L.~~ VOL'TMAN, V.L.

LEVIT, L.B.; MAKSIMOV, V.I.; VOL'TMAN, V.L.

Lining digester boilers with corner tiles. Bun.proz. 32 no.6:20-22
Je '57. (MIRA 10:8)

- 1.Priozerskiy tsellyuloznyy zavod (for Levit, Maksimov)
- 2.Moskovskiy institut khimicheskogo mashinostroyeniya (for Vol'tman)
(Woodpulp industry--Equipment and supplies)

FABRIKANT, Tamara L'vovna; VOL'TMAN, Vol'f Leonovich; KLINOV, I.Ya., red.;
AYZENSHTAT, I.I., red.; ZAZUL'SKAYA, V.P., tekhn.red.

["Asbovinyl" and its use in the chemical industry] Asbovinil i ego
primeneniye v khimicheskoi promyshlennosti. Pod red. I.IA.Klinova.
Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1958. 78 p. (Kor-
roziiya v khimicheskikh proizvodstvakh i sposoby zashchity, no.11)

(MIRA 12:3)

(Protective coatings) (Corrosion-resisting materials)

USSR / Cultivated Plants. Cereal Crops.

M-3

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58559
Author : Kravchuk, L. I.; Vol'tova'ska, O. B.; Guiz', G. A.;
Dubinina, I. A.; Chekma'sova, L. N.
Inst : Cherkask. Pedagogical Institute
Title : Preliminary Data on High Yielding Intervarieties of
Hybrids of Corn, Produced at the Agrobiological Station
of the Pedagogical Institute
Orig Pub : Nauk. Zap. Cherkas'k. derzh. ped. in-t, 1957, 11, 301-311
Abstract : No abstract given

Card 1/1

VOL'TOVSKIY, Boris Iovlevich [Vol'tovs'kiy, B.]; SKLYARENKO, O., red.;
LYAMKIN, V., tekhn.red.

[Fulfill in good time the seven-year plan for animal husbandry;
based on the practices of the party organization in Cherkassy
Province] Semyrichku v haluzi tvarynnytstva - dostrokovy;
s dosvidu robyry Cherkas'koi oblasnoi partiinoi organizatsii.
Kyiv, Derzh.vyd-vo polit.lit-ry URSR, 1960. 78 p.

(MIRA 13:5)

1. Sekretar' Cherkasskogo oblastnogo komiteta Kommunisticheskoy
partii Ukrainy (for Vol'tovskiy).
(Stock and stockbreeding)

VOLTR

Czechoslovakia / Analytical Chemistry.
Analysis of Inorganic Substances.

E-2

Abs Jour: Ref. Zhur - Khimiya, No. 2, 1958, 4331

Author : Voltr, Toushek, Toushkova

Title : On the Chemistry of Ferrates. I. Note On the
Analysis of Ferrates

Orig Pub: Chem. zvesti, 1957, 11, No. 1, 30-34

Abstract: The arsenite and gasometric methods for the
ferrates determination are described. Approx-
imately 0.1 g of the material to be analysed
is dissolved in 10 ml of an 0.2 N alkaline
solution of the arsenite. The resulting solu-
tion is acidified with a mixture of 30 ml
water and 15 ml. concentrated HCL, and made up
with water to 250 ml. To that, 10 ml. of the

Card 1/2

VOLTR, J.

Calculating capacity, efficiency, and time in jigger dyeing. p. 310. (Textil, Praha, Vol. 9, no. 10, Oct. 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6, June 1955, Uncl

VOLTRI, L.; LAANMAE, V.

Preliminary results of a combined test feeding of bacon hogs. p. 312.

GAZ, WODA I TECHNIKA SANITARNA. (Stowarzyszenie Naukowo-Techniczne
Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa)
Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb 1960

Uncl.

VOLTRI, L

If, and how much, should pasture be used for bacon hogs? p. 408

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inzynierow I Technikow Sanitarnych Ogrzewnictwa i Garownictwa) Warszawa, Poland
Vol.13, no.9, Sept. 1958

Monthly list of East European Accession (EEAI) LC, Vol.9, no.2, Feb. 1960

Uncl.

VOLTRI, L.; LAANMAE, V.

Replacing skimmed milk by hay flour in the feed rations of bacon hogs. p. 21

SOTSILIKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM.
Tallin, Hungary. No. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11
November 1959.

Uncl.

VOLTRI, L.; LAANMAE, V.

Dry feed mixtures for use in automatic feeders. p. 65

SOTSILKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM.
Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11
November 1959.

Uncl.

VOLTRI, L.

Make the work of swine caretakers easier.

p. 472 (Sotsialistlik Pollumajardus. Vol. 12, no. 10, Oct. 1957. Tallinn, Estonia)

Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 2,
February 1958

LAANHYAE, Vambola Eduardovich [Loanmæ, V.E.], kand.sel'skokhoz.nauk;
VOL'TRI, Leonikhard Yur'yevich [Voltri, L.J.], nauchnyy sotrudnik;
KATSMEL'SON, S.M., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Fattening meat-type swine; practices of Estonian collective and state farms] Bekonnyi otkorm svinei; iz opyta kolkhov i sovkhov Estonskoi SSR. Moskva, Izd-vo "Znanie," 1961. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i nauchnykh znaniy. Ser.5, Sel'skoe khoziasstvo, no.3).

(MIRA 14:2)

(Estonia--Swine--Feeding and feeds)

VOL'TRI, L. Yu., Cand Agr Sci -- "Practical and hygienic
methods of feeding and maintaining young ^{hogs} ~~pigs~~ under condi-
tions of ^{the} ESSR." Tartu, 1961. (Min of Agr ESSR. Estonian
Agr Acad) (KL, 8-61, 253)

- 354 -

VOL, TS. M.

Synthetic powder instead of lead-tin solders. Obm.tekh.
opyt.na avt.transp. no.3:3-13 '60. (MIRA 13:7)
(Solder and soldering)

1ST AND 2ND SPOLTS PROCESSED AND PROPERTIES INDEX										1RD AND 2TH CAPERS																			
<div style="position: absolute; top: 10px; left: 10px; font-size: 2em; font-weight: bold;">BC</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 2em; font-weight: bold;">B I I</div> <div style="position: absolute; top: 350px; left: 250px; text-align: center;"> <p>Electrochemical purification of refined metal in aqueous solution. A. I. Krasnoshchekov and E. I. Krasnoshchekova. Zh. Fiz. Khim. Anal., 1964, 37, 848-850).—Cathodic reduction of metal ions collected by</p> <p>cathodic reduction between Fe electrodes. Cathodic reduction rate of 3-9 l. per hr., 0-6 mm. per cm.², and 0-5 g. per cm.². Reduction is 0-5 kw.-hr. per m.² and 100 g. of Fe per m.², at constant A.M.E. A. E.</p> </div>																													
1ST AND 2ND SPOLTS PROCESSED AND PROPERTIES INDEX																				1RD AND 2TH CAPERS									
1ST AND 2ND SPOLTS PROCESSED AND PROPERTIES INDEX																				1RD AND 2TH CAPERS									

PROCESSING AND PROPERTIES INDEX																																		
5174.	ELECTROCHEMICAL PURIFICATION OF (BOILER)WATER TO REMOVE OXYGEN. Krasilschikov, AI and Voltschkova, EM (j. appl. chem. russ., 1944, 17, 242-251; brit. abstr. BI, 1945, 313). Complete deoxygenation is effected by cathodic reduction between Fe electrodes. Using a flow rate of 3:2 l. per hr., 0.6 ma. per cm., and 2.5 v., the consumption is 0.3kw hr. per m. and 130 g of Fe per m.3.																																	
METALLURGICAL LITERATURE CLASSIFICATION																																		
<table border="1"> <thead> <tr> <th>FROM</th> <th>TO</th> <th>CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10</td> <td>100</td> </tr> <tr> <td>11</td> <td>20</td> <td>200</td> </tr> <tr> <td>21</td> <td>30</td> <td>300</td> </tr> <tr> <td>31</td> <td>40</td> <td>400</td> </tr> <tr> <td>41</td> <td>50</td> <td>500</td> </tr> <tr> <td>51</td> <td>60</td> <td>600</td> </tr> <tr> <td>61</td> <td>70</td> <td>700</td> </tr> <tr> <td>71</td> <td>80</td> <td>800</td> </tr> <tr> <td>81</td> <td>90</td> <td>900</td> </tr> <tr> <td>91</td> <td>100</td> <td>1000</td> </tr> </tbody> </table>		FROM	TO	CLASSIFICATION	1	10	100	11	20	200	21	30	300	31	40	400	41	50	500	51	60	600	61	70	700	71	80	800	81	90	900	91	100	1000
FROM	TO	CLASSIFICATION																																
1	10	100																																
11	20	200																																
21	30	300																																
31	40	400																																
41	50	500																																
51	60	600																																
61	70	700																																
71	80	800																																
81	90	900																																
91	100	1000																																

VOL'TSINGER, N.Ye.; SIMUNI, L.M.

Numerical integration of shallow water equations for purposes
of forecasting Leningrad floods. Trudy GOIN no.74:33-44 '63.
(MIRA 16:7)

(Differential equations)
(Leningrad—Flood forecasting)

VOL'TSINGER, N.Ye.; LABZOVSKIY, N.A.; PYASKOVSKIY, R.V.

Numerical calculation of rises of sea level at Leningrad. Trudy
GOIN no.81:14-36 '64. (MIRA 17:11)

VOL'TSKAYA, I.I. (Leningrad, prospekt M. Gor'kogo, 65-2, kv.7-a)

Calculi of the bile duct. Vest. khir. 92 no.3:73-79 Mr '64.

(MIRA 17:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. P.N. Napalkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

VOLTYANSKIY, V. G.

"O Vlokhennyakh Poliedrov v Evklidovi Prostranstva"

Report submitted for Symposium on General Topology and its relations to
modern Analysis and Algebra, Prague, 1-8 Sep 61

VOLURITSKIY, S. D.; SHULESHKOV, K. K.

Electric Railroads

Conference and seminar on new engineering methods on electric railroads.
Elektrichestvo no. 9, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, December 1952. Uncl.

18-1111

29468
S/137/61/000/008/026/037
A060/A101

AUTHORS: Volubuyev, I. V., Ryaguzova, S. A.

TITLE: Influence of hardening temperature upon the mechanical properties of manganese steel containing niobium

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 7, abstract 8150, ("Tr. Khar'kovsk. politekhn. in-ta.", 1960, 15, 111-114)

TEXT: An investigation was carried out on specimens of steel with the following composition (in %): 45Г2 (45Г2) - C 0.5, Mn 1.93, Si 0.25, P 0.035, S 0.035; 45Г2В15 (45Г2В15) - C 0.51, Mn 2.05, Si 0.33, Nb 0.15, P 0.054, S 0.014; 45Г2В30 (45Г2В30) - C 0.46, Mn 2.04, Si 0.47, Nb 0.30, P 0.049, S 0.009. Mn-steel complementarily alloyed with Nb has higher σ_b and σ_s than steel without Nb. The hardening temperatures for Mn-steel with Nb may be recommended as 1,000°C, since hardening from this temperature with subsequent high tempering yields the best combination of strength and ductility. There are 5 references.

R. Rumyantseva X

[Abstracter's note: Complete translation]

Card 1/1

VOLUBUYEV, P.

Features of the decay of monopoly capitalism in Russia. Vop. ekon.
no.2:60-70 P '58. (MIRA 11:3)
(Russia--Economic conditions--History)

~~VOLOBUKH, S.A.~~; KOCHUBEY, I.M.; BONDARENKO, P.O.; IZMAYLOV, V.G., inzhener;
DORSENKO, M., redaktor; VUYEK, M., tekhnichniy redaktor.

[Continuous-sequence method in plastering work] Potokovo-rozchlennovanyi metod shtukaturnykh robot. Kyiv, Derzh.vyd-vo tekhn. lit-ry
URSR, 1954. 61 p. (MLRA 8:2)
(Plastering)

VOLUBUYEV, V. R.

"Soils and Climate," a paper presented at the 6th International Soil Science Congress, Paris, 28 Aug to 8 Sep 56

Library Branch #5

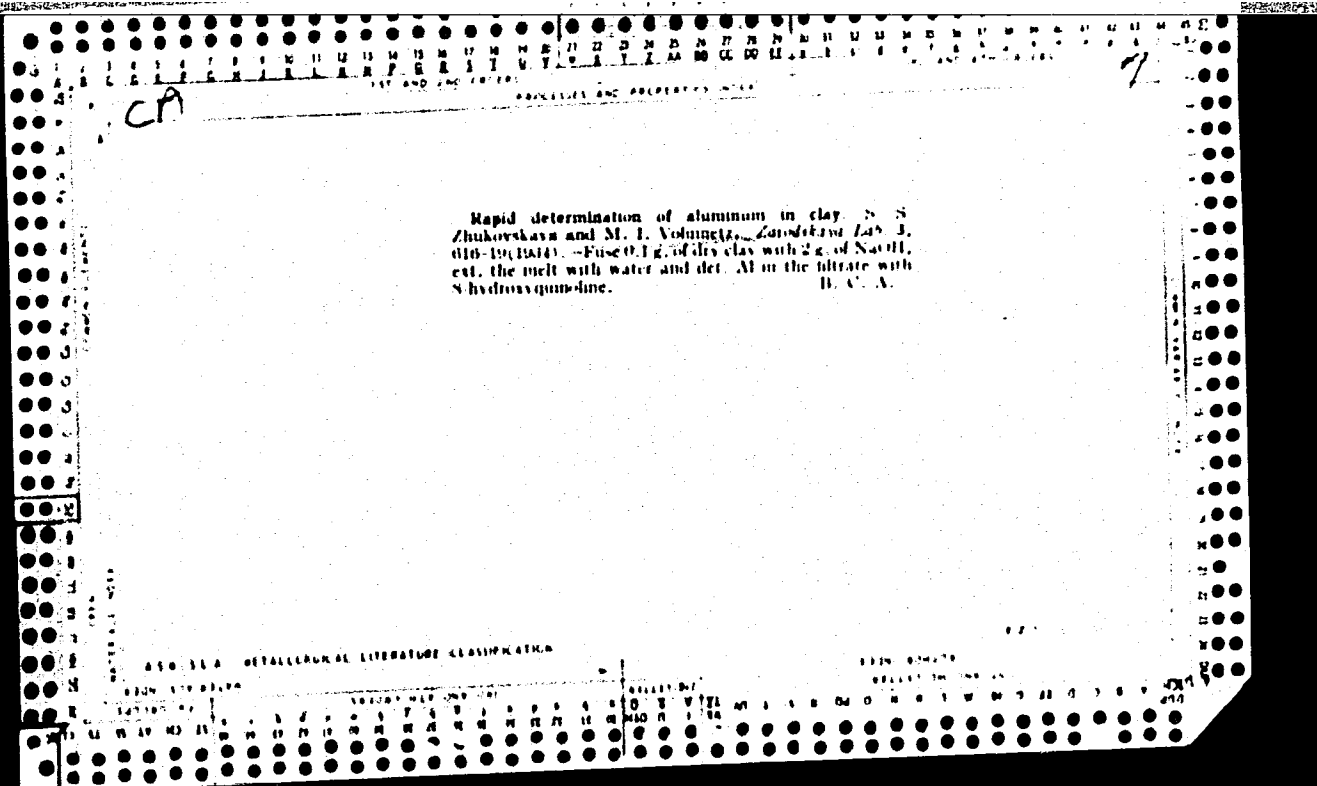
ca

7

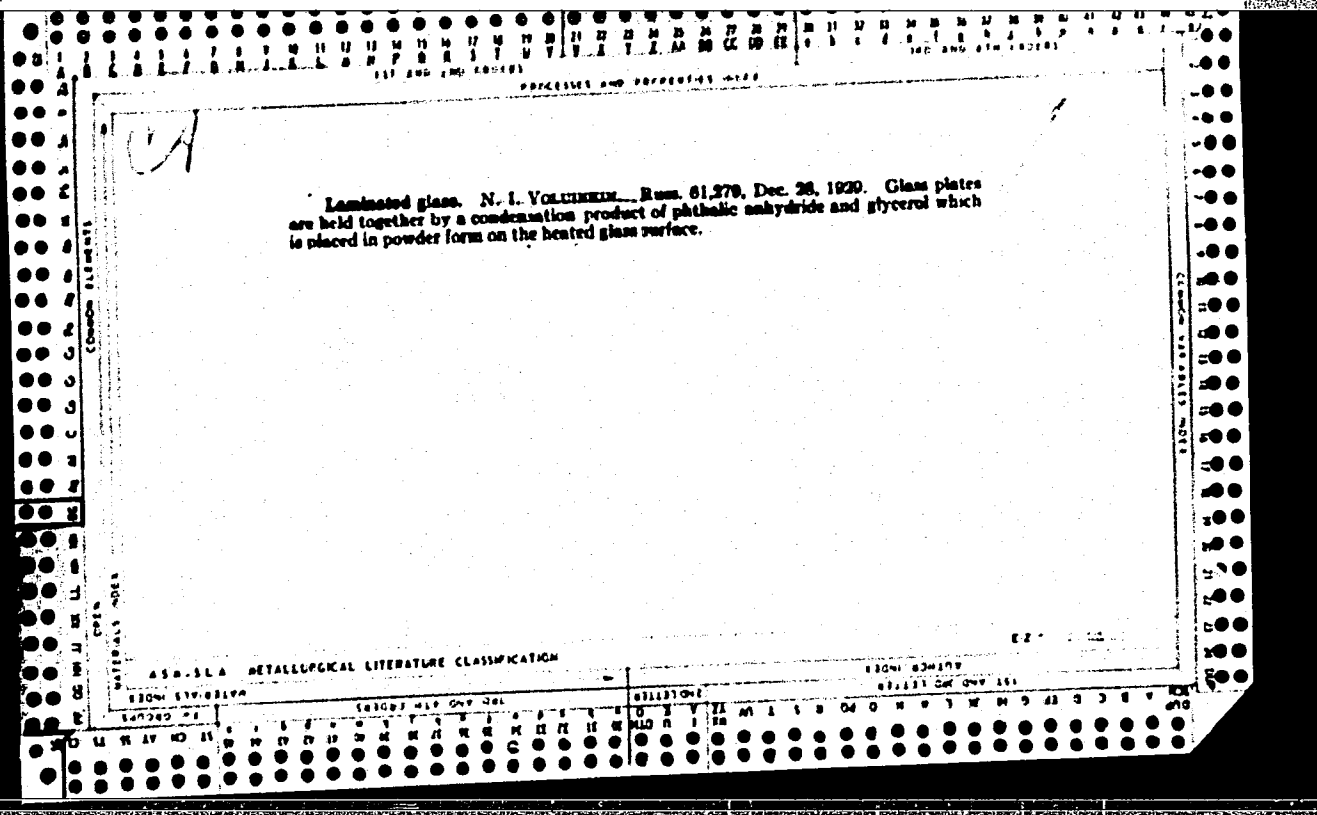
Volumetric determination of silicon in Dineo, quartzites, clays and gneiss with the aid of 8-hydroxyquinoline. M. I. Volinets. *Zvezdichye* Lab. 5, 102-4 (1937).--The method of Berg and Teitelbaum (Z. anorg. Chem. 61, 611 (1928)) for the detn. of Si by titrating the ppt. of H_2SiO_3 with KMnO_4 -KBr and back titrating with $\text{Na}_2\text{S}_2\text{O}_3$ was used with good results in the detn. of SiO_2 in the minerals. SiO_2 was sepd. by fusion of the samples with NaOH or Na_2CO_3 . Chas. Blanc

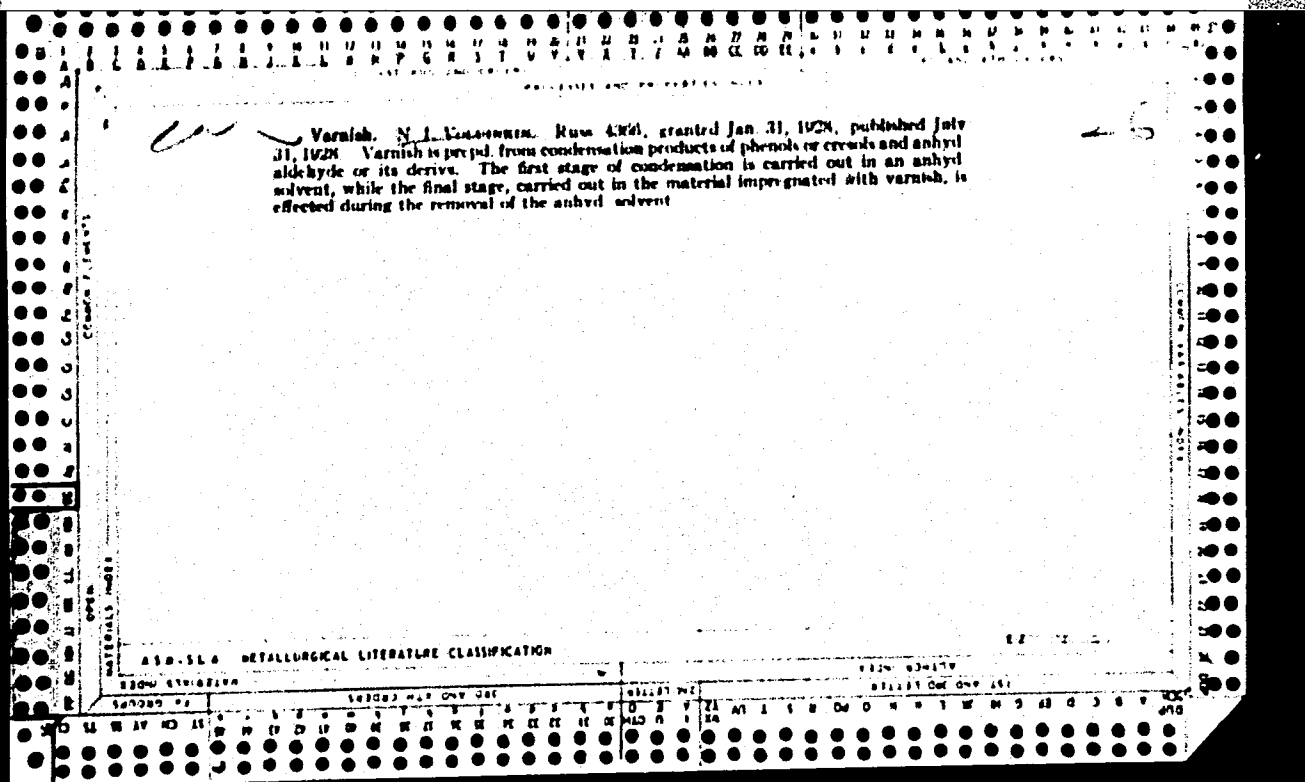
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOL	SEARCH MAP ONE USE	REVISION	DATE	BY	REMARKS
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
121	122	123	124	125	126
127	128	129	130	131	132
133	134	135	136	137	138
139	140	141	142	143	144
145	146	147	148	149	150
151	152	153	154	155	156
157	158	159	160	161	162
163	164	165	166	167	168
169	170	171	172	173	174
175	176	177	178	179	180
181	182	183	184	185	186
187	188	189	190	191	192
193	194	195	196	197	198
199	200	201	202	203	204
205	206	207	208	209	210
211	212	213	214	215	216
217	218	219	220	221	222
223	224	225	226	227	228
229	230	231	232	233	234
235	236	237	238	239	240
241	242	243	244	245	246
247	248	249	250	251	252
253	254	255	256	257	258
259	260	261	262	263	264
265	266	267	268	269	270
271	272	273	274	275	276
277	278	279	280	281	282
283	284	285	286	287	288
289	290	291	292	293	294
295	296	297	298	299	300
301	302	303	304	305	306
307	308	309	310	311	312
313	314	315	316	317	318
319	320	321	322	323	324
325	326	327	328	329	330
331	332	333	334	335	336
337	338	339	340	341	342
343	344	345	346	347	348
349	350	351	352	353	354
355	356	357	358	359	360
361	362	363	364	365	366
367	368	369	370	371	372
373	374	375	376	377	378
379	380	381	382	383	384
385	386	387	388	389	390
391	392	393	394	395	396
397	398	399	400	401	402
403	404	405	406	407	408
409	410	411	412	413	414
415	416	417	418	419	420
421	422	423	424	425	426
427	428	429	430	431	432
433	434	435	436	437	438
439	440	441	442	443	444
445	446	447	448	449	450
451	452	453	454	455	456
457	458	459	460	461	462
463	464	465	466	467	468
469	470	471	472	473	474
475	476	477	478	479	480
481	482	483	484	485	486
487	488	489	490	491	492
493	494	495	496	497	498
499	500	501	502	503	504
505	506	507	508	509	510
511	512	513	514	515	516
517	518	519	520	521	522
523	524	525	526	527	528
529	530	531	532	533	534
535	536	537	538	539	540
541	542	543	544	545	546
547	548	549	550	551	552
553	554	555	556	557	558
559	560	561	562	563	564
565	566	567	568	569	570
571	572	573	574	575	576
577	578	579	580	581	582
583	584	585	586	587	588
589	590	591	592	593	594
595	596	597	598	599	600
601	602	603	604	605	606
607	608	609	610	611	612
613	614	615	616	617	618
619	620	621	622	623	624
625	626	627	628	629	630
631	632	633	634	635	636
637	638	639	640	641	642
643	644	645	646	647	648
649	650	651	652	653	654
655	656	657	658	659	660
661	662	663	664	665	666
667	668	669	670	671	672
673	674	675	676	677	678
679	680	681	682	683	684
685	686	687	688	689	690
691	692	693	694	695	696
697	698	699	700	701	702
703	704	705	706	707	708
709	710	711	712	713	714
715	716	717	718	719	720
721	722	723	724	725	726
727	728	729	730	731	732
733	734	735	736	737	738
739	740	741	742	743	744
745	746	747	748	749	750
751	752	753	754	755	756
757	758	759	760	761	762
763	764	765	766	767	768
769	770	771	772	773	774
775	776	777	778	779	780
781	782	783	784	785	786
787	788	789	790	791	792
793	794	795	796	797	798
799	800	801	802	803	804
805	806	807	808	809	810
811	812	813	814	815	816
817	818	819	820	821	822
823	824	825	826	827	828
829	830	831	832	833	834
835	836	837	838	839	840
841	842	843	844	845	846
847	848	849	850	851	852
853	854	855	856	857	858
859	860	861	862	863	864
865	866	867	868	869	870
871	872	873	874	875	876
877	878	879	880	881	882
883	884	885	886	887	888
889	890	891	892	893	894
895	896	897	898	899	900
901	902	903	904	905	906
907	908	909	910	911	912
913	914	915	916	917	918
919	920	921	922	923	924
925	926	927	928	929	930
931	932	933	934	935	936
937	938	939	940	941	942
943	944	945	946	947	948
949	950	951	952	953	954
955	956	957	958	959	960
961	962	963	964	965	966
967	968	969	970	971	972
973	974	975	976	977	978
979	980	981	982	983	984
985	986	987	988	989	990
991	992	993	994	995	996
997	998	999	1000	1001	1002
1003	1004	1005	1006	1007	1008
1009	1010	1011	1012	1013	1014
1015	1016	1017	1018	1019	1020
1021	1022	1023	1024	1025	1026
1027	1028	1029	1030	1031	1032
1033	1034	1035	1036	1037	1038
1039	1040	1041	1042	1043	1044
1045	1046	1047	1048	1049	1050
1051	1052	1053	1054	1055	1056
1057	1058	1059	1060	1061	1062
1063	1064	1065	1066	1067	1068
1069	1070	1071	1072	1073	1074
1075	1076	1077	1078	1079	1080
1081	1082	1083	1084	1085	1086
1087	1088	1089	1090	1091	1092
1093	1094	1095	1096	1097	1098
1099	1100	1101	1102	1103	1104
1105	1106	1107	1108	1109	1110
1111	1112	1113	1114	1115	1116
1117	1118	1119	1120	1121	1122
1123	1124	1125	1126	1127	1128
1129	1130	1131	1132	1133	1134
1135	1136	1137	1138	1139	1140
1141	1142	1143	1144	1145	1146
1147	1148	1149	1150	1151	1152
1153	1154	1155	1156	1157	1158
1159	1160	1161	1162	1163	



1ST AND 2ND COVERS										3RD AND 4TH COVERS									
PROCESSING AND PROPERTIES INDEX																			
<p>1A</p> <p>Non-shattering glass. N. I. VOLKOVSKII. Russ. 20,020, April 30, 1932. Glass layers are held together by means of a soln. of a condensation product of urea and alkyl- hyle in alc. The alc. is removed before pressing by drying at a temp. of about 102°. Cl. C. A. 25, 701</p>																			
METALLURGICAL LITERATURE CLASSIFICATION																			
<p>10000 110 00100</p> <p>100000 001</p>										<p>10000 00100</p> <p>100000 001 100</p>									
<p>10000 001 100</p> <p>10000 001 100</p>										<p>10000 001 100</p> <p>10000 001 100</p>									





10

CO

Production of resorcinol. N. I. Volynkin. *J. Applied Chem.* (U. S. S. R.) 9, 885-8 (in German 888) (1936).—The improvements in the usual procedure for the production of resorcinol (I) are: the use of a stronger fuming H_2SO_4 in the sulfonation of $C_{12}H_{10}$, resulting in 100% $m-C_{12}H_7(SO_3H)_2$ (II), the simplification of the conversion of II into the Na salt, the reduction of NaOH amt. in the alk. fusion of II, and the crystn. of vacuum-dist. Et_2O in the extn. of I, and the crystn. of vacuum-dist. I from PhMe with little H_2O , giving white I specific by the U. S. S. R. pharmacopoeia. $C_{12}H_{10}$ is sulfonated with 20-40% fuming H_2SO_4 at 160-200°, depending on the strength of the fuming H_2SO_4 used. The reaction mass is freed from H_2SO_4 with $Ca(OH)_2$ in H_2O ; the filtrate, after neutralizing with Na_2CO_3 or NaOH, is evapd. to dryness in *vacuo*, and the II is dried at 100° and powdered. Equally good yields are obtained by fusing II with 7 mols. of NaOH instead of 16 mols. With the use of a suitable stirrer this ratio may be reduced to 5 mols. NaOH (25% excess) to 1 mol. of II. NaOH is heated electrically in an Fe pot at 300-400°. The 1st third part of II is introduced slowly and the balance rapidly. Toward the end of the reaction the temp. is raised to 318-20°. The fusion is controlled by dissolving 1 g. of the melt to a definite concn., followed by the addn. of 10 cc. of 0.5% 1-diazo-2-naphthol-4-sulfonate acid and the comparison of the soln. with the preceding test and a standard soln. similarly prepd. The melt is dissolved in H_2O with the addn. of HCl to an acid reaction and is extd. with a mixt. of Et_2O and CaH_2 (b. 60-8°). I is freed from PhOH by vacuum distn. in a special app. All connecting pipes, valves and the 2 receivers are electrically heated at 110-20°. The crystn. of I is effected with a definite proportion of PhMe wetted with H_2O . Chas. Blanc

METALLURGICAL LITERATURE CLASSIFICATION

FROM CIVILIAN

FROM MILITARY

FROM NAVAL

FROM AIR

FROM SPACE

FROM OTHER

FROM UNCLASSIFIED

FROM CONFIDENTIAL

FROM SECRET

FROM TOP SECRET

VOLUNTARU, A.

Retrospective view on the revision of standards for analyzing methods of solid fuel. p. 132.

(Standardizarea, Vol. 9, No. 3, Mar. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EML) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

VOLUNTARU, A; ORNSTEIN, H.

The standardization of tensio-active products.

P. 560 (STANDARDIZAREA) (Bucuresti, Rumania) Vol. 2, no. 11, Nov. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5, 1958

VOINUTAN, A.

VOLUNTARI, A. New methods of analyzing in the petroleum industry. p. 18.
Vol. 7, no. 11, Nov. 1956. INDUSTRIA TEXTILA. Bucuresti,
Rumania.

SOURCE: East European Accessions List (EEL) LC Vol. 9, No. 6 June 1956

RUMANIA / Chemical Technology. Fats, oils, waxes, soaps,
detergents, substances, flotation agent

H-25

Abs Jour : Ref. Zhur-Khimiya, No 12, 1958, 41175

Author : Voluntaru, Ornshteyn.

Inst : Not given

Title : Standardization of surface active agents

Orig Pub : Standardizirova, 1957, 9, No 11, 560-562.

Abstract : In reviewing the existing standards and norms of surface active agents with the purpose to eliminate the imperfections of the system, it has been recommended that the surface active agents be divided into groups and sub-groups according to their chemical composition. Appropriate nomenclature should be employed.

Card 1/1

19

VOLUS'KO, D. F.

FD-3313

USSR/Medicine - Toxicoinfection

Card 1/1 : Pub 148-9/24

Author : Volus'ko, D. F.

Title : A study of food toxicoses and toxicoinfections and their prevention
(Author's Abstract)

Periodical : Zhur. mikro. epid. i immun. 10, 46, Oct 1955

Abstract : Two instances of food toxicoses from contaminated beef and one from preserved fish are discussed. Proper handling of foodstuffs is recommended as a means of preventing food toxicoses. No references are cited.

Institution : Mogilevskaya Oblast Sanitary-Epidemiological Station (Head Physician-A. N. Bakalov)

Submitted : March 29, 1955

VOLUS'KO, D.F.,

APPROVED FOR RELEASE: 08/09/2001 and CIA-RDP86-00513R001860730001-5"

Zhur. mikrobiol. epid. i immun. 29 no. 7:122-126 J1'58 (MIRA 11:8)

1. Iz Mogilevskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(MICROBIOLOGY, appar. & instruments,
portable electric thermostat for microbiol. investigation
in rural cond. (Rus))

VOLUISKAIA, E. N.

"Spectrophotometry of biuret complexes as a method for investigations of proteins and peptides. Part 16. Comparative activity of copper, nickel, and cobalt during the formation of the biuret complex of tripeptide (glycyl)," Plekhan, M. I.,
Voluiskaja, E. N. (p. 343)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1953, Volume No. 23, No.2.

COUNTRY : ROMANIA
CATEGORY : Chemical Technology. Chemical Products and Their Applications. Pesticides.
ABS. JOUR. : RZhKhim., No 10, 1959, No. 68937
AUTHOR : Vancea, M.; Volusniuc, M.
INSTITUTE : Romanian Academy
TITLE : Analysis for "Systox"
ORIG. PUB. : Studii si cercetari chim. Acad. RPR, Fil. Cluj, 1958, 9, No 1-4, 171-176
ABSTRACT : Content of the thiyole isomer "systox" in the technical grade product is determined by iodometric titration after the hydrolysis of 0.1-0.5 gr of a substance with 25 ml HCl (acid) (3 hours at 125°) performed in a special apparatus. -- A. Gracov

Card:

1/1

RUMANIA/Analytic Chemistry - Analysis of Inorganic
Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46413

- dithizone (chloroform solution) - color from green
into stable light gray, which corresponds to the start
of the formation of the chelate of Bi with dithizone
after the quantitative precipitation of BiPO_4 .
The titration method of PO_4^{3-} with $\text{Bi}(\text{NO}_3)_3$ is similar
in general with the titration method of
 PO_4^{3-} by $(\text{CH}_3\text{COO})_2\text{Pb}$ solution described in the report
I (RZhKhim, 1958, 43051.)

Card 2/2

17

VOLUSNIUC, M.; VANCEA, M.

Contributions to the study of Systox. p. 171.

Academia Republicii Populare Romino. Filiala Cluj. STUDII SI CERCETARI DE
CRIME. Cluj, Romania. Vol. 9, no. 1/4, Jan./Dec. 1958.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 7, July 1959.

Uncl.

VANCEA, Marin; VOLUSNIUC, Maria

Rapid gravimetric determination of bismuth as bismuth oxalate. Studii
cerc chimie Cluj 10 no.2:283-286 '59. (EEAI 9:9)

1. Academia R.P.R. - Filiala Cluj, Institutul de chimie.
(Bismuth oxalate) (Bismuth) (Oxalic acid)
(Nitric acid)

VOLUSMIUC, M.; VANCEA, M.

A rapid gravimetric method of determining lead as lead phosphate. p. 155.

Academia Republicii Populare Romine. Filiala Cluj. STUDII SE CERCETARI DE
CHIMIE. Cluj, Rumania. Vol. 9, no. 1/4, Jan./Dec. 1958.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 7, July 1959.

Uncl.

RUMANIA/Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43051.

Author : Vancea Marin, Volusniuc Maria.

Inst : Rumanian Academy.

Title : Direct Titrimetric Determination of Phosphates. I.

Orig Pub: Studii si cercetari chim. Acad. RPR Fil. Cluj, 1957, 8, No 1-2, 85-88.

Abstract: PO_4^{3-} is titrated with a solution of $Pb(CH_3COO)_2$ at pH 2-3 in the presence of dithizone as an indicator for Pb^{2+} . 0.05 - 0.1 g of the phosphate being analyzed are dissolved in 10 ml of water, there are added 2-3 ml of buffer solution (6 ml glacial CH_3COOH + 13.6 g CH_3COONa in 1 liter of solution), 1 ml of freshly prepared chloroform solution of dithizone

Card : 1/2

10

Substances.

E-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43051.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860730001-5"

(0.05 g in 100 ml), and titration is performed with 0.05 N solution of $(CH_3COO)_2Pb$ to the first change in color of the solution from green to violet. Determination error does not exceed 0.5%. The method is suitable for series analyses of phosphate fertilizers.

Card : 2/2

COUNTRY : Rumania

E-2

COUNTRY : Rumania
 CATEGORY : Analytical Chemistry. E-2
 RES. JOUR. : RZKhim., No. 7, 1959, No. 23080
 AUTHOR : Vancea, M.; Volusniuc, M.
 INST. : Rumanian Academy
 TITLE : Analysis of Superphosphates. III. Titrimetric Determination of Phosphorus Available to Plants According to the Reaction of Formation
 ORIG. PUB. : Studii si cercetari chim. Acad. RPR. Fil. Cluj, 1957, 8, No 3-4, 261-264; 265-268
 ABSTRACT : III. For determination of P in superphosphate use is made of the method previously developed by the authors, which is based on titration of PO_4^{3-} with a solution of $Pb(CH_3CO_2)_2$ in acetic acid medium using dithizone as an indicator (RZKhim, 1958, 43051). The SO_4^{2-} ions which interfere with the titration are first precipitated with a solution of $Ba(NO_3)_2$. Excess Ba^{2+} , in an acetic acid medium, is not precipitated by PO_4^{3-} ions and consequently does not interfere with determination of P. To 10-20 ml mixed aqueous and acetic acid extract of superphosphate (preceding abstract) are added 5 ml acetate buffer solution (0.1 N $CH_3COOH + 0.1$ N CH_3COONa , 1:1), 3 ml saturated solution $Ba(NO_3)_2$
 CARD: 1/4

* of Lead Phosphate in the Presence of Dithizone as

AES. JOUR.
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : and 1 ml 0.01% chloroform solution of dithizone, and PO_4^{3-} is titrated with 0.05 N solution of $Pb(CH_3CO_2)_2$.

CARD: 2/4

COUNTRY : Rumania

E-2

* Formation of Bismuth Phosphate in the Presence of Dithizone as Indicator.

2-25

COUNTRY : Rumania E-2
 CATEGORY : Analytic Chemistry.
 ABS. JOUR. : RZhKhim., No. 7, 1958, No. 23080
 AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : solution changes to a light gray. Titer of the $\text{Bi}(\text{NO}_3)_3$ solution is determined with chemically pure KH_2PO_4 under analogous conditions. Communication II see RZhKhim, 1958, 46413. -- B. Marole.

CARD: 4/4

RUMANIA/Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43052.

Author : Vancea Marin, Volusniuc Maria.
 Inst : Rumanian Academy.
 Title : Gravimetric Method of Determination of Phosphate-Ion as Lead Phosphate.

Orig Pub: Studii si cercetari chim. Acad. RPR Fil. Cluj, 1957, 8, No 1-2, 93-96.

Abstract: Description of a method based on precipitation of PO_4^{3-} in the form of $\text{Pb}_3(\text{PO}_4)_2$ at pH 2.3. In determining PO_4^{3-} , 0.05-0.1 g of the monophosphate being analyzed are dissolved in 20 ml water, 1-2 ml of a buffer solution (6 ml concentrated CH_3COOH + 13.6 g CH_3COONa per liter) are added, the mixture

Card : 1/2

RUMANIA/Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abs Jour: Ref Zhur-Khin., No 13, 1958, 43052.

is heated to boiling, and hot 0.05 N $\text{Pb}(\text{CH}_3\text{COO})_2$ is added, dropwise with continuous stirring, until complete precipitation has occurred, after which the precipitate is allowed to settle to the bottom of the beaker on a water bath. The precipitate is filtered off, washed with 0.3% solution of CH_3COOH , dried, calcined at $600-700^\circ$ and weighed as $\text{Pb}_3(\text{PO}_4)_2$. The described method yields results that are comparable with those of the pyrophosphate or of the phosphoro-molybdenum methods and is suitable for determination of available P_2O_5 in natural phosphates and in superphosphates.

Card : 2/2

Volusnius
RUMANIA/Analytical Chemistry - Analysis of Inorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24829
Author : Vancea, M., Liteanu, C., Volusnius, M.
Inst : Rumanian Academy.
Title : New Rapid Method of Gravimetric Determination of Phosphate Ion.
Orig Pub : Studii si cercetari chim. Acad. RPR Fil. Cluj, 1956, 7, No 1-4, 101-110
Abstract : PO_4^{3-} is determined by precipitation in the form of BiPO_4 in nitric acid solution at pH 0.6-0.7. Ca^{2+} , Fe^{3+} and Al^{3+} do not interfere with the determination. 0.1-0.2 g KH_2PO_4 are dissolved in 50 ml water, heated to boiling, 0.5 ml of 68% HNO_3 are added, and then, dropwise and with stirring, a solution of $\text{Bi}(\text{NO}_3)_3$ containing

Card 1/2

17

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; ISHUTIN, V.V.

Results of the regional seismic studies in the central Kara-Kum.

Trudy VNIGNI no.35:162-166 '61.

(MIRA 16:7)

(Kara Kum--Seismic prospecting)

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.

Seismic investigations along the regional base profile Amu Darya
(Karabekaul) - Nura-Tau (Koytash). Izv.AN Turk.SSR.Ser.fiz.-tekhn.,
khim.i geol.nauk no.3:28-32 '61. (MIRA 14:7)

1. Otdel razvedochnoy geofiziki i seysmologii pri Prezidiume AN
Turkmenkoy SSR.

(Uzbekistan--Seismic prospecting)

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; TAL'-VIRSKIY, B.B.

Using seismic methods in prospecting for oil and gas deposits in the Fergana Valley. Geol. nefti i gaza 4 no.1:18-25 Ja '60.

(MIRA 13:10)

1. Uzbekneftegeofizika.

(Fergana--Seismic prospecting)

GODIN, Yu.N., akademik; VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.

Seismic investigations of the earth's crust in the Bukhara region
of the Uzbek SSR. Dokl. AN SSSR 134 no.5:1069-1072 O '60.

(MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geofizicheskikh metodov
razvedki. 2. AN Turkmenskoy SSR (for Godin).
(Bukhara--Seismic waves)

GODIN, Yu.N., akademik; VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.

Seismic investigation of the earth's crust in the region
of the Fergana intermontane trough. Dokl.AN SSSR 133
no.6:1398-1401 Ag '60. (MIRA 13:8)

1. Uzbekskiy geofizicheskiy trest i Vsesoyuznyy nauchno-
issledovatel'skiy institut geofizicheskikh metodov razvedki.
2. Akademiya nauk Turkmenskoy SSR (for Godin).
(Fergana--Seismometry)

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; TAL'-VIRSKIY, B.B.

Conditions for seismic prospecting in the Fergana Valley.
Razved. i prom. geofiz. no. 35:73-77 '60. (MIRA 13:12)
(Fergana--Seismic prospecting)

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, .I.S.; RYABOV, .V.Z.

Laboratory use of the controlled directional sensitivity method
in interpreting the materials of deep seismic soundings. Razved.
i prom. geofiz. no.36:8-13 '60. (MIRA 13:12)
(Seismic prospecting)

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; ISHUTIN, V.V.; SEMENOVICH, V.V.;
TAL'-VIRSKIY, B.S.; CHAMO, S.S.

Regional geophysical studies in central Asia and their further trends.
Sov.geol. 6 no.12:112-117 D '63. (MIRA 16:12)

1. Nauchno-issledovatel'skaya sredneaziatskaya geofizicheskaya
ekspeditsiya kontory "Spetsgeofizika" i Uzbekskiy geofizicheskiy
treat.

ACC NR: AT6028367

(N)

SOURCE CODE:- UR/0000/65/000/000/0026/0032

AUTHOR: Vol'vovskiy, B. S.; Vol'vovskiy, I. S.; Tal'-Virskiy, B. B.; Shraybman, I. I.

ORG: none

TITLE: Structure of the Earth's crust and upper mantle of the main geostructural zones of western Soviet Central Asia

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 26-32

TOPIC TAGS: seismology, Earth crust, ~~Mohorovicic discontinuity~~, gravity anomaly, basement, meganticline megasyncline, upper mantle, *MOHOROVICIC DISCONTINUITY / WESTERN SOVIET CENTRAL ASIA*

ABSTRACT: Three different zones distinguished in western Soviet Central Asia are as follows: an area of recent contrasting movements of Tien Shan, the Epihercynian platform and the Kopet-Dag foredeep. These zones include major structural features of the first order, such as arches and depressions in the platform and meganticlines and magasynclines in Tien Shan. The data obtained from deep seismic sounding and seismological observations made it possible to estimate the crustal thickness of western Soviet Central Asia and to discover certain regularities in variation of the crustal thickness. In general, the data suggest that, in the orogenic area of Tien Shan, the crust is much thicker than within the platform. In addition, Tien Shan

Card 1/2

ACC NR: AT6028367

is characterized by higher gradients of crustal thickness variations and general geomorphic contrasts of the Moho discontinuity. Both in Tien Shan and within the platform, uplifted zones (positive structural features) are characterized by smaller crustal thicknesses, and zones of depressions, by large thicknesses. The Moho discontinuity and the basement surface practically conform. The thickness of the crust changes mainly on account of the thickness of the overburden covering platform formations. At present the main source of information about the mantle structure is gravity data. However, its interpretation is complicated by the fact that gravity anomalies reflect the total effect of many factors, the most important of which are relief and petrographic nonuniformity of the basement, variations of the thickness of the crust and its layers and, finally, inhomogeneity of subcrustal material. Within Tien Shan and the Turanian platform, local variations of the residual anomalies correspond to major structural features of the first order, suggesting the presence of local inhomogeneous types of subcrustal masses in each of these area. Orig. art. has: 3 figures.

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 010

Card 2/2

ACC NR: AR6009029

SOURCE CODE: UR/0169/65/000/010/G003/G003

AUTHOR: Vol'vovskiy, B.S.; Vol'vovskiy, I. S.; Tal'-Virskiy, B.B.; Shraybman, V. I.

ORG: None

TITLE: The structure of earth crust and the top mantle of the basic geostructural zones of Central Asia

SOURCE: Ref. zh. Geofizika, Abs. 10G13

REF SOURCE: Sb. Geol. resul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory, M., Nedra, 1965, 26-32

TOPIC TAGS: *gravitation anomaly*, earth crust, earth crust structure, seismology, Central Asia, ~~crust structure~~, ~~Turanian crust structure~~, Tyan'Shan' ~~crust structure~~, ~~gravitation anomaly~~

ABSTRACT: In the present geological structure of Central Asia, there are regions related to the three basic geotectonic categories of continents, the Turanian epi-Hercynian platform, the alpine folds region of Kopet-Dag, and the orogenic region of Tyan'-Shan'. The relation between surface relief of the folded foundation, the thickness of the earth crust, and the relative density changes of the surface mantle of these regions is discussed. Seismological data indicate a correlation between the geotectonic state, the earth structure, and the character of the density changes of the subcrustal masses. To the Tyan'-Shan' orogenic region (relative to the Turanian platform) corresponds an increase in the crust thickness and a relatively smaller density of subcrustal masses.

Cord 1/2

UDC 550.311:551.14

ACC NR: AR6009029

Besides, increased gradients of the earth crust thickness and a high contrast relief of the Mohorovicic surface characterize the Tyan'-Shan'. The Turanian platform and the Tyan'-Shan' are also substantially different in their gravitational characteristics. The gravitational anomaly decreases at the transition from the Turanian platform to the Tyan'-Shan'. [Translation].

SUB CODE: 08/ ~~SUBM DATE~~ None/

Card 2/2

ACC NR: AP7010685

SOURCE CODE: UR/0215/66/000/012/0118/0123

AUTHOR: Rikhter, V. G.; Vol'vovskiy, I. S.

ORG: VNII Geofizika

TITLE: Neotectonics as an index of anomalous crustal thicknesses

SOURCE: Sovetskaya geologiya, no. 12, 1966, 118-123

TOPIC TAGS: tectonics, upper mantle, lower mantle

SUB CODE: 08

ABSTRACT: R. M. Demenitskaya has demonstrated that the elevations of the earth's surface are in close functional dependence on the thickness of the earth's crust. Mathematically this relationship is expressed by the formula

$$M = 33th(0.38H-0.18)+38,$$

where M is the crustal thickness at a particular point, H is the elevation of the earth's surface above sea level, in km. However, it has been shown that many special curves intersect the generalized R. M. Demenitskaya curve or run parallel to it. In this refinement of that author's work, the authors consider points not falling on this generalized curve (characterizing isostatic equilibrium of the crust) to be anomalous, and seek to interpret

Card 1/2

UDC: 551.241

0930

28/75

ACC NR: AP7010685

their pattern. However, instead of using heights of relief, as in earlier studies, the authors now use the amplitudes of the most recent tectonic movements. The analysis of thicknesses of the crust and the amplitudes of these recent vertical tectonic movements, illustrated in this paper, revealed a close dependence between the latter and anomalous deviations in crustal thickness. It is concluded that deviations from the R. M. Dement'skaya curve in any direction characterize regions of recent uplifts or downwarplings, regardless of their genetic nature. Orig. art. has: 3 figures and 3 formulas. [JPRS: 40,291]

Card 2/2

AMURSKIY, G.I.; VASIL'YEV, V.G.; VOL'VOVSKIY, I.S.; GARETSKIY, R.G.;
GABRIELYANTS, G.A.

Basic tectonic elements in the western part of Central Asia.
Neftegaz. geol. i geofiz. no.4:7-10 '65. (MIRA 18:7)

1. Upravleniye geologii i okhrany neдр pri Sovete Ministrov
Turkmen'skoy SSR; Vsesoyuznyy nauchno-issledovatel'skiy institut
prirodnogo gaza; IG AN SSSR i Nauchno-issledovatel'skaya
Sredne-Aziatskaya geofizicheskaya ekspeditsiya, kontora
Spetsgeofizika.

VOL'VOVSKIY, I.S.; RYABOY, V.Z.; SHRAYBMAN, V.I.

Subsurface geology of the Fergana Valley according to
geophysical data. Sov.geol. 5 no.1:156-160 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh
metodov razvedki.

(Fergana—Geology)

ACCESSION NR: AR4036339

8/0169/64/000/003/G004/G004

SOURCE: Referativnyy zhurnal. Geofizika, Abs. 3019

AUTHOR: Vol'vovskiy, I. S.; Vol'vovskiy, B. S.

TITLE: Characteristics of the structure of the earth's crust in the western part of Soviet Central Asia (on the basis of data from integrated geophysical investigations)

CITED SOURCE: Sb. Tezisy dokl. Soveshchaniya po probl. tektoniki. M., AN SSSR, 1962, 147-149

TOPIC TAGS: geology, geophysics, geophysical exploration, earth's crust, Mohorovicic discontinuity, seismology, crustal structure, deep seismic sounding gravimetry

TRANSLATION: On the basis of the structure of the earth's crust in Central Asia it is possible to define two zones: a western zone with relatively simple structure and an eastern zone which has a considerably more complex structure. In the eastern zone there is a deep downwarping of the Mohorovicic discontinuity

Card 1/3

ACCESSION NR: AR4036339

in the Fergana depression, a decrease in crustal thickness in the bordering ranges and a plunging of the surface of the subcrustal layer toward the Pamir-Alay system. Individual uplifts are noted in the western zone against a background of smooth plunging of the Mohorovicic discontinuity in a southward direction. On the whole, within the Kopet-Dag and Pamir-Alay system there is an inverse relationship between the surface relief and the surface of the subcrustal layer, whereas in the mountain structures of the zone of renewed folding (Kuraminskiy, Ferganskiy, Turkestanskiy and Kuraminskiy Ranges) there is a direct relationship between the two forms of relief. Within the limits of a platform uplifted sectors of the crust correspond to an arching uplift of the surface of the folded basement, that is, the thickness of the crystalline crust remains approximately constant. In geologically uniform regions the earth's crust in the process of tectonic development apparently does not experience special adjustments; the cause of movements is physicochemical processes in the subcrustal matter. A comparison of deep seismic sounding and gravimetric data makes it possible to detect those relationships between density differentiation of the

Card 2/3

ACCESSION NR: AR4036339

subcrustal matter and tectonic movements in the crust which will serve as
confirmation of the hypothesis of phase transitions of subcrustal matter.
I. Galkin

DATE ACQ: 17Apr64

SUB CODE: AS

ENCL: 00

Card 3/3

ACCESSION NR: APh023372

s/0049/64/000/002/0184/0195

AUTHORS: Alekseyev, A. S.; Vol'vovskiy, I. S.; Yermilova, N. I.; Krauklis, P. V.; Ryaboy, V. Z.

TITLE: The physical nature of some waves recorded during deep seismic sounding. Comparison of theoretical computations with experimental data. 3

SOURCE: AN SSSR. Izv. "Seriya geofizicheskaya, no. 2, 1964, 184-195

TOPIC TAGS: seismic wave, deep seismic sounding, head wave, refracted wave, reflected wave, supercritical wave, "granite" layer, "basaltic" layer, wave group, Mohorovicic discontinuity

ABSTRACT: The authors have used theoretical computations and experimental data from two earlier papers (K voprosu o prirode voln, registriruyemykh pri GSZ, II. Teoreticheskiy analiz nekotorykh modeley zemnoy kory*, Izv. AN SSSR, ser. geofiz., No. 1, 1964; K voprosu o prirode voln, registriruyemykh pri GSZ I. Kharakteristika eksperimental'nykh dannykh. Izv. AN SSSR, ser. geofiz., No. 11, 1963). They conclude that the first waves of the P_h^0 group are head or weakly refracted waves,

Card 1/3

ACCESSION NR: AP4023372

corresponding to the upper part of the "granitic" layer. The wave group $T(P^*)$ is a complex wave formation. The first wave of the group consists of a head (weakly refracted) P^*_h wave (up to a distance of 120-130 km from the shot point) and a supercritical reflected wave from the surface of the "granite" layer (P^0_{refl}) or "basaltic" layer (P^*_{refl}), depending on the relative thickness and velocity of the crustal layers. The P_{refl} and P_h waves are the supercritical reflected and head (weakly refracted) waves, respectively, corresponding to the subcrustal boundary (Mohorovicic discontinuity). The nature of the P_1 wave group is not uniquely determined. It may represent a complex group of waves consisting of supercritical reflected and head waves formed at a discontinuity below the Mohorovicic discontinuity or refracted in the subcrustal layer (if it is assumed that velocity increases with depth in this layer). The P_1 group, which is apparently recorded in other regions, may become the source of very valuable information on the structure of the upper part of the mantle. The principles of wave-group correlation in deep seismic sounding may lead to a combination of waves of different physical nature into a single group. To test correlation it is necessary to make preliminary

Cord 2/3

ACCESSION NR: AP4023372

detailed analysis of theoretical views concerning amplitude and attenuation of waves of different physical types. Orig. art. has: 8 figures.

ASSOCIATION: Kontora "Spetsgeofizika" MG 1 ON SSSR (Office of "Spetsgeofizika" MG and ON SSSR); Akademiya Nauk SSSR (Academy of Sciences SSSR); Leningradskaya Otdeleniya matematicheskogo instituta im. Steklova (Leningrad Department of the Mathematical Institute)

SUBMITTED: 26Mar63

DATE ACQ: 27Mar64

ENCL: 00.

SUB CODE: AS

NO REF SOV: 013

OTHER: 000

Card 3/3

S/049/62/000/008/002/003
1046/1246

AUTHORS: Belousov, V.G., Vol'vovskiy, B.S., Vol'vovskiy, I.S. and Ryaboy, V.Z.

TITLE: Experimental investigation of the registration of deep-reflected waves

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 8, 1962, 1034-1044

TEXT: A report on the deep seismic sounding with reflected (subcritical) waves carried out in 1960-1961 in the South-Eastern Turkmenia over a 120 km profile. The noise waves were eliminated by using directional reception: seismoreceivers and sources of seismic vibrations were grouped together (9 receivers spaced evenly over a linear distance of 400 m, each group removed by 100 m from its neighbors). Comparison of the results with the data obtained in 1958 in deep seismic sounding with reflected (hypercritical) and leading waves shows good agreement in general features on the seismograms, though subcritical reflection is better in detecting fine details. It is

Card 1/2

Experimental investigation of the registration....

recommended to use as far as possible a combination of the two methods. There are 8 figures.

SUBMITTED: February 26. 1962

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki (The All-Union Scientific Research Institute of Geophysical Methods of Prospecting) ✓

Card 2/2

VOL'VOVSKIY, B.S.; VOL'VOVSKIY, I.S.; RYABOV, V.Z.

Some data on seismic waves corresponding to the layer beneath the
crust. Prikl. geofiz. no.31:3-10 '61. (MIRA 15:3)
(Uzbekistan--Seismic prospecting) (Earth--Internal structure)